NEWS WWW CAS World Wide Web Site (general information)

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=> d l1 1-2

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:15341 CAPLUS

DN 132:60124

TI Nonsymbiotic plant ***hemoglobins*** to maintain cell energy status in transgenic systems

IN Guy, Phillip; Duff, Stephen; Xianzhou, Nie; Hill, Robert; Durnin, Douglas; Sowa, Aleksander

PA University of Manitoba, Can.

SO PCT Int. Appl., 44 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2000000597 A2 20000106 WO 1999-CA587 19990624
WO 2000000597 A3 20000323

N: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,

=> d 12 1

- L2 ANSWER 1 OF 1 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
- AN 94324312 EMBASE
- DN 1994324312
- TI Trace element nutrition during pregnancy.
- AU Wada L.; King J.C.
- CS Department of Nutritional Sciences, College of Natural Resources, University of California, Berkeley, CA 94720, United States
- SO Clinical Obstetrics and Gynecology, (1994) 37/3 (574-586). ISSN: 0009-9201 CODEN: COGYAK
- CY United States
- DT Journal; Conference Article
- FS 010 Obstetrics and Gynecology
 - 017 Public Health, Social Medicine and Epidemiology
- LA English
- SL English
- => d 12 1 ab
- L2 ANSWER 1 OF 1 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
- AB The best means to ensure an optimal intake of trace elements during pregnancy is the consumption of a well-balanced diet that includes both animal- and plant-food sources. Although vegetarian diets provide reasonable sources of trace elements, especially in dried beans and ***seeds*** , flesh foods contain higher concentrations of trace

elements

that are in a more readily absorbable form. Iron is the only trace element for which routine supplementation is recommended. In the United States, the iodine content of the food supply is sufficiently high to make supplementation unnecessary, but use of iodized salt is not contraindicated. There is no need to screen pregnant women routinely for trace element status, except to monitor ***hemoglobin*** and hematocrit as an indicator of iron status. The best indicators that a woman's trace element status may be at risk is a history of poor food ***selections***, a clinical disorder that alters trace element use or excretion, or prior residence in a region of the world where the trace element content of the soil is low.

- => duplicate remove 13
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 I.4 8 DUPLICATE REMOVE L3 (2 DUPLICATES REMOVED)

While the ***seed*** and the pollen carry species characters, they also transmit certain obscure properties which are peculiar to each of the sex elements; this was shown by differences in the offspring of reciprocal crosses. The germplasm is recognized as a stereochem. system. Such phenomena as sports, reversion, variation, and the genesis of strains, subspecies, and species are due to gradual and progressive changes and ultimate fixation; hybridization is probably the chief method in the genesis of species.

- => seed(w)selection and breeding SEED(W)SELECTION IS NOT A RECOGNIZED COMMAND The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).
- => s seed(w)selection and breeding L6 52 SEED(W) SELECTION AND BREEDING
- => duplicate remove 16

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 PROCESSING COMPLETED FOR L6
 L7 49 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)
- => d 17 1-10 ti
- L7 ANSWER 1 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN Selection for large seed and high protein in two- and three-parent soybean populations.
- L7 ANSWER 2 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 1
- TI Genetic effects on grain shape traits of indica black pericarp rice and their genetic correlations with main mineral element contents in grains.
- L7 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI System for functional gene discovery in plants using multigeneration ***breeding*** with database tracking of phenotypes
- L7 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Non-random selection of livestock and crops and tissue products in ***breeding*** for uniformity using phenomics and bioinformatics
- L7 ANSWER 5 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Selection for high seed oil content in soybean families derived from plants regenerated from protoplasts and tissue cultures
- L7 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Selection of soybean mutants with increased concentrations of seed methionine and cysteine
- L7 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

cultivar Idared, through parthenogenesis in situ.

AU De Witte, Krista; Keulemans, Johan

CS Fruitteeltcentrum K.U. Leuven, Willem de Croylaan 42, B-30001 Leuven-Heverlee, Belgium

SO Euphytica, (1994) Vol. 77, No. 1-2, pp. 141-146. CODEN: EUPHAA. ISSN: 0014-2336.

DT Article

LA English

ED Entered STN: 25 Jan 1995 Last Updated on STN: 25 Jan 1995

=> FIL STNGUIDE

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=> s single(w) seed(w) descent

221 SINGLE

0 SEED

0 DESCENT

L8 0 SINGLE (W) SEED (W) DESCENT

=> file agricola biosis embase caplus

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L10 ANSWER 3 OF 341 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN This paper reviews some measurements of representativeness such as the AB effective population size (Ne) useful in genetic resources conservation and plant breeding research. Some easy-to-use expressions for estimating Ne in a number of practical conditions are given. For the case of several subpopulations, Ne is scarcely influenced by the total inbreeding. Thus, Ne becomes mostly dependent on the allelic diversity among subpopulations and the number of subpopulations sampled. When, under natural conditions, levels of interpopulation allelic divergence are low, it is misleading to believe that a small number of subpopulations will be sufficient to attain adequate effective population sizes. When a single population is considered and seeds being sampled have a family structure, at the limit Ne depends only on the number of seed parents and the coancestry coefficient among sibs within families. Accession regeneration is the case where the reference population is of finite size. Gametic control is a major factor in regeneration. The loss of up to 20% of seeds may be recovered in terms of Ne when female gametic control is applied. This is not attainable with random sampling of seeds. When studying Ne in recurrent selection schemes, results showed that the gain in Ne through gametic control is very small when selection is intensive. When comparing effective population sizes for the ***single*** ***seed*** ***descent*** (SSD) method versus the bulk system, results showed that

=> s single(w) seed(w) descent and selection and trait and breeding
L11 52 SINGLE(W) SEED(W) DESCENT AND SELECTION AND TRAIT AND BREEDING

SSD maintains genetic drift at a low level and offers a much better protection against random loss of alleles during selfing generations. Estimating population parameters, through codominant genetic markers is fundamental for obtaining reliable estimates of effective population size.

=> duplicate remove ll1
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PROCESSING COMPLETED FOR L11

L12 38 DUPLICATE REMOVE L11 (14 DUPLICATES REMOVED)

=> d l12 1-15

L12 ANSWER 1 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 1

AN 2003:578040 BIOSIS

DN PREV200300582830

TI Mapping QTL for ***traits*** associated with resistance to ferrous iron toxicity in rice (Oryza sativa L.), using japonica chromosome segment substitution lines.

AU Wan Jian-Lin [Reprint Author]; Zhai Hu-Qu; Wan Jian-Min [Reprint Author]; Yasui, Hideshi; Yoshimura, Atsushi

CS State Key laboratory of Crop Genetics and Germplasm Enhancement, Jiangsu Plant Gene Engineering Research Center, Nanjing Agricultural University, Nanjing, 210095, China wanjm@mail.njau.edu.cn

SO Acta Genetica Sinica, (Oct 2003) Vol. 30, No. 10, pp. 893-898. print. ISSN: 0379-4172 (ISSN print).

DT Article

SSD, 34.5% of the original population was lost due to barrenness at the high density in 1 cross and 26.5% in the other. Seed of surviving genotypes was increased for a replicated field trial where maturity (days after 1 June), plant height (cm) oil content (NMR value), and grain yield (g/hill plot) were measured. Means and variances between progenies advanced under high or low densities generally did not differ for any of the ***traits*** , leading to the conclusion that the genotypes eliminated due to barren plants were randomly and not selectively eliminated due to ***selection*** pressures of the technique.

L12 ANSWER 38 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN Heredity of a few ***traits*** relevant to plant development and AΒ assimilation area was studied in Toulouse, France, in 2 independent non-selected hybrid populations segregating in F3 and F4. Both generations were grown related to each other, as well as to the initial ***seed*** ***descent*** . The F4 material ***single*** F2, by was also analyzed on a plant mean basis in 2 replicated rows at normal planting density. For both populations as isolated plants, heritability values were consistently high (0.32-0.70) for leaf area and earliness. They were low (< 1) for 2nd development phase duration and weight per seed. The 2 populations did not differ much from each other, except for the heritability size of the various characters. When the F4 was grown under conditions of plant competition, the heritability values remained roughly the same, but for the number of pods per plant it slightly decreased. The expected genetic progress resulting, at normal density, ***selection*** performed among spaced plants, showed more spread differences between characters, with total similarity between both families. The more responsive ***trait*** was leaf area, followed by yield. Although the 2 characters are positively correlated, it is possible to associate, in a ***breeding*** program, an improved yield with a moderate leaf area, that is recommendable in the climatic conditions of France.

=> s l12 and protein L13 4 L12 AND PROTEIN

=> d 113 1-4 ibib ab

L13 ANSWER 1 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

ACCESSION NUMBER:

2000:31462 AGRICOLA

DOCUMENT NUMBER:

IND22034394

TITLE:

Agronomic performance of lines derived from anther culture, maize pollination and ***single*** ***seed*** ***descent*** in a spring wheat

cross.

AUTHOR(S):

Ma, H.; Busch, R.H.; Riera-Lizarazu, O.; Rines, H.W.;

Dill-Macky, R.

CORPORATE SOURCE:

University of Minnesota, St. Paul, MN.

AVAILABILITY:

DNAL (442.8 Z8)

SOURCE:

Theoretical and applied genetics, Aug 1999. Vol. 99,

No. 3/4. p. 432-436

Publisher: Berlin; Springer-Verlag CODEN: THAGA6; ISSN: 0040-5752

Concomitant with our QTL identification and manipulation efforts are several ongoing expts. based on functional genomics. We are convinced that emerging technologies based on gene expression have the potential to provide complementary information that will promote more efficient germplasm improvement. Indeed, understanding the genetic basis of the essential physiol. parameters of drought tolerance in maize, together with the data generated by profiling expts., should allow the identification of the key pathways involved in drought stress and further our understanding of how they interact. This, in turn, will lead to develop strategies to improve the tolerance of maize and other crops to water-limited conditions.

REFERENCE COUNT:

THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> protein(w)content and seed and selection and breeding and plant PROTEIN(W)CONTENT IS NOT A RECOGNIZED COMMAND
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=> s protein(w)content and seed and selection and breeding and plant L14 281 PROTEIN(W) CONTENT AND SEED AND SELECTION AND BREEDING AND PLANT

=> s 114 and barley L15 17 L14 AND BARLEY

=> duplicate remove 115

DUPLICATE PREFERENCE IS 'BIOSIS, CAPLUS'

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PROCESSING COMPLETED FOR L15

L16 17 DUPLICATE REMOVE L15 (0 DUPLICATES REMOVED)

=> d l16 1-10 ti

- L16 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

 TI High protein phenotype-associated ***plant*** genes and their use for generating transgenic ***plants*** with improved nutritional properties
- L16 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

 Barley malting quality and yield interrelationships and the effect on yield distribution of ***selection*** for malting quality in the early generations
- L16 ANSWER 3 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN TI A synthetic hexaploid (2n = 42) oat from the cross of Avena strigosa (2n = 14) and domesticated A. magna (2n = 28).
- L16 ANSWER 4 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

 Protein ***content*** heritability in ***selection*** of

 barley based on intraplant variation in kernel anatomical

 structure.
- L16 ANSWER 5 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

 Selection of Dry pea (Pisum sativum) varieties and their

 performance by comparison with ***barley*** and wheat in Mediterranean

=> single(w)trait(w)variablilty and protein and seed and barley and selection SINGLE(W)TRAIT(W)VARIABLILTY IS NOT A RECOGNIZED COMMAND
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For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s single(w)trait(w)variablilty and seed and selection L19 0 SINGLE(W) TRAIT(W) VARIABLILTY AND SEED AND SELECTION

=> s single(w)trait and seed and protein and selection L21 1 SINGLE(W) TRAIT AND SEED AND PROTEIN AND SELECTION

=> d 121 ibib ab

L21 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 1997:242957 BIOSIS DOCUMENT NUMBER: PREV199799542160

TITLE: ***Selection*** for yield, ***protein*** , and oil

in soybean crosses between adapted and introduced parents.

AUTHOR(S): Scott, Roy A. [Reprint author]; Kephart, Kevin D.

CORPORATE SOURCE: Plant Sci. Dep., South Dakota State Univ., Box 2140C, NPB

247, Brookings, SD 57007, USA

SOURCE: Field Crops Research, (1997) Vol. 49, No. 2-3, pp. 177-185.

ISSN: 0378-4290.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 13 Jun 1997

Last Updated on STN: 13 Jun 1997

AB Soybean (Glycine max (L.) Merr.) breeders can sometimes increase genetic variability in their germplasm through wide crosses with plant introduction (PI) material, and in that way lead to slow progress in developing high-yielding cultivars. A study was conducted to evaluate the potential of crosses of adapted times introduced soybean lines for improving yield and ***protein*** and oil concentrations. Five soybean cultivars adapted to South Dakota were crossed in selected combinations with four PI lines to develop F-3-derived lines. The adapted and PI lines were selected for wide variation in ***protein*** and oil